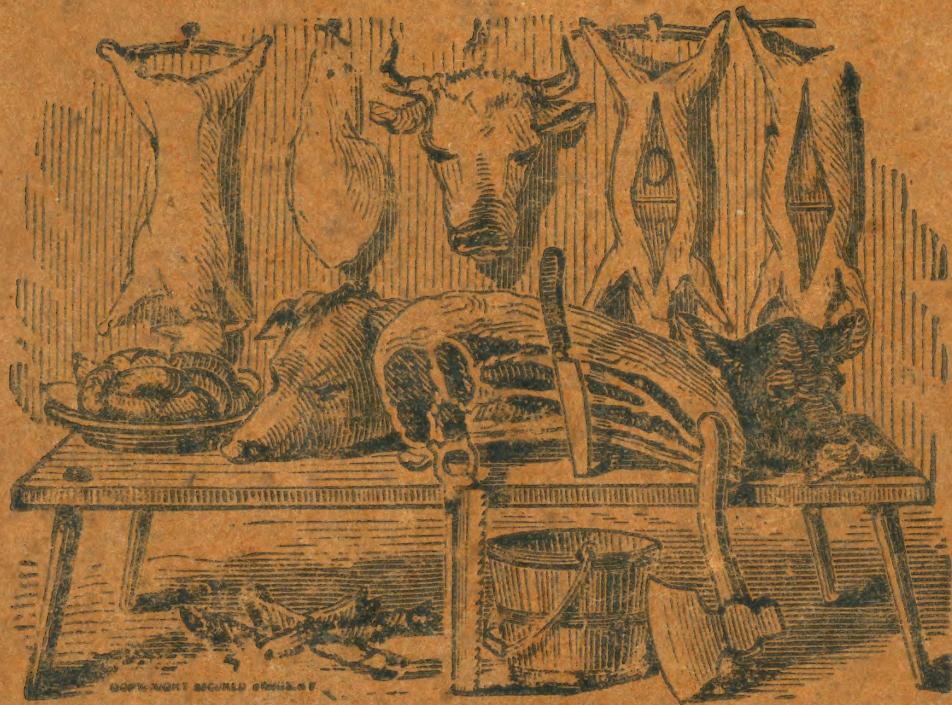


401-414

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401

Very gregarious on horse hair (Smilax rotundifolia) Woods Holl, Mass. Aug 11, 1893
No zigzag bilobed, broad, rounded processes
shiny black with a few hair ^(sh. 1.45) 1.4 mm
body scarcely cylindrical under the high
subtruncate at the extremities, thick.
Minute black pellon dots, somewhat
irregular, narrow ① and, remote from
②, ③ lat, ④ stig. post, ⑤ ant ⑥ post - 5-5.
Feet narrow, the black, old with one
blackish plate & black clasps
Bed not shiny, white above & purple
with d, s-d, lat & super stig lines
narrow black, & between them 2
other, next d. Super lat. of olivaceous
gray, all separated by white, 5-5
eventually light yellow with 5-5
and 5-5 orange bands. The ends

of the luna have peculiarly modified marks. e.g. On 2 a black patch representing fish, surrounded by white. As the line ceases before it. 5-8 line on 2 (vul) is black. On 11, the 3d line ceases & the 2 oblique line join behind it, square \Rightarrow while the last. & supra st. become confluent. On 12 are 2 s-d & 1 lat. (conspicuous) white patches, rounded, separated by black. The large lateral one wrinkled; on 13, 4 similar small patches (each side) the anal plate black, the post. 3d patch on 12 contains a dark cloud the 4 line runs through, but none of the other can be traced. There are on ant. edge of 2, before cervical spot, 2 white patches separated by black similar to those on post. end of body

Wolff Aug 13 Same but all the dorsal line alike, black. w. hd ^(sh hd 2.0) mm. The cloud in post 3d patch on 12 has become a black spot.

Wolff Aug 20 Same. Angular shield, black [white, 12 narrow black line, below spiracles (then yellow with rge. bands) the 3 lower, line on each side are connected transversely by irregular black streaks. The feet black, abd. outwardly slightly enlarged, Barnard. Head partly retracted under 2 which is a little wrinkled a black dot on the 2d patch on 13 (would not eat hot house fly, left with 2 others)

He put them in alcohol

Halena turbulenta

(and Doll)

Coll. 31 44 .63 .90 1.3 1.8 2.6 3.7 4.70
 Found 35 .45 .6 .9 1.25
 HYB.
 402

+Eggs laid by ♀ Arctia panthea at
 Plattsburgh, N.Y. night Aug 27-8, 1893
 Laid loose, rounded conoidal, shiny
 pearly yellowish white: diam. .9 mm.
 Basal end a little concave.

Hatched night Sept 9-10 Hd undate black.
 Body normal, pale, cdh a warts black.
 Warts large, giving appearance of dark
 gray lams. Hair single, stiff
 rather long, dark. W. hd, mm.
 mol Sept 15 Hd velvety black, clypeus

(sh hd. 45.)
 large, pale w. am Body light brown
 warts black, hair black becoming
 pale s-r. Hair stiff, not long, thin
 but several from a wart. Appearance
 of pale sd 1'd hair between warts.

mol Sept 21 Hd well lobed, sutures deep
 clypeus large, 4, very shiny black

labium pale, mandib. (sh. hd. 6)
 w. 6? mm.
 Body ammonian brown with a narrow
 even d. line w/ a shade pale.
 Warts large, black, ② connected by
 a black sd shade. gentle pale
 Hair mostly black, a few of the
 post. ones longer and concolorous.
W. night Sept 29 Hd shiny black with pale
 setae. W. mm Body black, the skin
 pale laterally, especially around
 bases of warts. warts large black.
 Hair very dense, bristly, jet black,
 spineless, the few long posterior
 hair less bristly and pale.
 contrasts in color with last stage.
W. night Oct 10 (sh. hd. 1.25) remhd 1.4, velvety
 black. Body blackish brown, darker
 than in the previous stage, the warts
 shiny black. granular. The. feet

black, abd. blackish, pale at tip.

Hair mostly short and dense, spinulated pointed, very black. A few longer ones post. also black, no marks on body but the lines of vent give a faint appearance of pale lines between them.

[3 hibernated as stage IV, one as stage V]

(Put the 3 with one on ice Oct 21. 1893)

Kept the 4 in warm ~~water~~ ^{Oct 25} Hd slightly velvety shiny black above darker pale in w. 1.7 ± mm Body blackish more brownish laterally, vent 0-3 shiny black, the others with black granulations. Feed coccolinid hair white, spinulose black as also the few long post. hair. No marks.

403

Carina on willow, Plattsburgh Aug 28, 1893

Like borealis, but taken for it for plant. Hd rounded quadrato, sutures deep, blackish brown with faint yellow dots, paler around mouth. w. 1.5 mm. Blunt thick spinous & barbed, setae from distinct tubercles (normal, ① post. sub stig) very stiff & spring from ①-③, more hair like & with some on legs.

Tails rather densely short-stiff-spined. Brownish yellow, d. bands blackish brown, vent divided 4, stig 8, constricted between 11 & 12, scarcely mottled & not bordered. tubercles all dark.

3 post. slightly elevated. Tails dark, reddish at base, twice annulated yellow. Length to tails 4.5 mm [Stage before h. & similar]

dead (see 511)

a ♀ 404 Washington D.C. April
1902 laid eggs that hatched
May 9th. The little worms at
once took position on upper
side of leaves, pointed and open
slight nests above.

③ 2 in line
④ 3 in spiral
⑤ 5 in V

3-17-94 404
another on black birch
On alder, butterfly-moth larva, Aug 28
higher than $\frac{1}{2}$
Hd bilobed subglandular, setae dist.
Banded whitish, the small ones dark
and brown. 2 rows -
one \cap from "
from ped. 1
acellibla
from w
Body of
new
seta
to
a c
as the
ovate, esp. ①-④ lat, w line, 6 styl
post. ⑥ sub styl. On 3-4 ①-⑤ green
⑥-⑦ in line, 6-8 do. 5-7, more on base of
foot, each with single long dark
seta. On 3-4 ② is red, edginate

What wanted
in D. arcuata?
Pucker tree
all stages

~~*St. americanus*~~

~~eggs 612~~

a ♀ 404 Washington D.C. April
1902 laid eggs that hatched
May 9th. The little worm at
once took position on upper
side of leaves, jumkered and spun
slight nets above.

3-17-94

404

another on black brick
On alder, butterfly-nocturnid, Plattsburgh Aug 28
higher than $\frac{1}{2}$
Hd fibbed subguttate. sutures dist.
Gonidia white, the small dry in dark
ad-horn; 2 same color bands, concentric
one \cap from scells, above opf, the other
from post. lateral over vertex of lobes
acelliblack, rather long pale setae
from minute tubercles w. 1.8? mm
Body thick, slightly flattened, of
near even width but the last
seg. tapering. Anal just absent
the marginal plate produced into
a conical, rounded process as long
as the plate. Tubercles mostly 4-
5-6-7, 0-1-2, 0-0-1-1, 0-1-1, 0-2-2
post. 0-2-2-2. On 3-4 0-0 near
0-0 in line, 0-0 du-s-v, more on base of
foot, each with single long dark
seta. On 3-4 0 is red, edgiate

③ is black, giving the appearance of hairs when there are none. Light green, whitish vertically, a sd purple band, filled in over the dorsum with purple hair from 5 to 13. Spins a sort of house folding partially edge of leaf like mass. Other head dorsum green, shaded with yellowish and faintly clouded with brown spotting. sd hair broken at midline.

Evidently Platypteryx arcuata
(see Benthomiles Ent. Amer. T. 38)

Imago, April 18, 1894

Platypteryx arcuata

calc.	.62	1.00	1.61, 2.60	4.20	rat. 62
found	—	—	1.6	2.6	4.0-4.2

405 and beach
Heterocampa manteo. on white oak
Plattsburgh Aug 29. Singly but some 15
on a small tree.

Stage IV Larva head. Hd. 2.6 mm.

Stage V Hds 4.0, 4.0, 4.1, 4.2 mm [bilineata 3.3]

Marked like b. bilineata with same structure. Hd large, elliptical, clefts small, sometimes moderately impressed. Higher than wide; light green with a black band bordered with white.

on ant. lat. L, going at vertex and narrowed; fine brown, black at tip, a few black setae. Rock green in brown dotted, lat. S-V. Hd yellowish; a broad sd one white on its ^(separated from it by) lower side, contiguous to d. on 3-4, & retracted to D on 12. a narrow yellow stg. line. Anal feed red except at base above where they

are tinged with yellow & green
Setae black, tubercles small,
D on 5 occasionally indicated in
red. Spinules blackish otherwise.

2 In addition a purple brown patch
surrounding red ① 5, an elongate patch
7 ② above sd band; a similar
small one n 10; ① 12 faintly indi-
cated in red. Side heavily speckled

3 Space between sd line 2-5 filled
with purple brown dotted with white
(except white d. line); 5-6 patches (same)
in 7 & 10 large, pushing the sd band
down in a loop to sprockle; 12 red.
sd bands filled in with reddish brown

4 Whole d. space between bands
5-13 and σ projecting on 7 & 10 filled
in with deep purple-brown, slightly
white dotted & fading into red
around ① 5 & 12. D. line narrow white.

Lateral purple dots bear, the
s-r region somewhat blotched
feet rather heavily marked [In
this ex. the s-d band was imperfect
hindering the projection on 7 & 10, so
that they hardly reached the spinules]

P. dorsal line seems rather more
constantly well marked, narrower
& less diffuse than in bilineata
while the d. region is not white
shaded being very nearly con-
voluted with the lateral area. The
tubercles & setae are the same.

5 Like ② but side shaded with white
contrasting with the yellow-green dor-
sum. Sd band white, yellow above

with very narrow dark edge.
stage hd 1.6 $\frac{1}{2}$ flat in front, raising higher
than wide, green with vertical brown stripes
a black abbreviated & alm. claspers. ocelli &
tubercles for subventral setae black. Went to
us next stage. Sd band yellow, more white

N. obliqua!

NEW

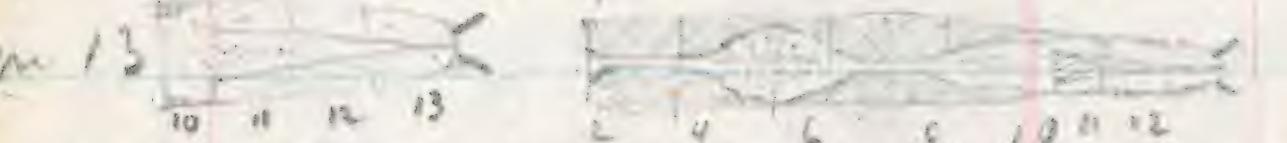
406 *H. astante*? ^{most 5}
^{2 macroura} ^{ff 3}

Heterocampa on white oak, Plattsburgh
N.Y., Aug. 30, 1893. Two-headed. Col.
higher than wide, clypeus 3, antennae
moderate, rather angular laterally.
(abn gone) ^(thhd 2.35) w. 2.5 mm. Body bunched
7-10 as it looks humped, tapering
post into almost tail like anal
feet 1.5 mm long. A pair of short
cervical barbed horns (red tipped?
injured in the specimen) Leaf green,
peppered with purple brown and
finely streaked with white. A peculiar
white d. band, scarcely gutturata but
without its s-d band. Serrata in 2,
narrow 3-4, widening $\frac{4}{6}$ to lat. or 6
narrow in antennae & 9, widening, widest
11 just, narrowing to anal feet.
Slight brown border, otherwise 2
bark like streaks in the ant. band

1 larger, almost predominately one.
in the pink are with a few faint
reddish lines. A series of mottled
red-brown blotches around spiracles
& s-r, with ill defined edge on
 $5\frac{1}{4}$ \downarrow ; $6\frac{7}{8}$ \downarrow ; $9\downarrow$; $10\downarrow$. Trace of
a white s-r line along ridge, seen
distinctly only 12-13. Anal feet white
with a brown line on top & black tips
*beginning at the widened white band.
Another hd 3.5 mm hd finely dotted-
mottled with light red & black on a
whitish ground, forming a diffuse gray
band from ocelli to vertex, & crimson
bogus around ocelli; mouth parts
dark crimson as are the feet except
at joints. Body with solid white
(or light green)
ground, thickly covered with red-brown
rounded dots, arranged in ^(and with straight intervals)
low broad stripes in the lateral

containing a double faint narrow irregular line, *
(or as before)

Patches of last stage largely obscured,
horns absent, body smooth, anal feet
short, divergent, white. Dorsal band as
before, all white, dotted with brown
less thickly than sides, defined by a
brown shaded border & tinged with
yellow where the horns were, in ^{sides of} central
patch & with crimson in 2. The ~~first~~
border of the band is broken on 11
General appearance light brown
gates ~~hd. under 2~~ * (which is green
on 5-7, and forms a green wedge shaped
patch on 11-13 and, edged with brown &
yellow, tapering past & ending in a line
on 13)



equal yellow stage line in the green form.

[Do it backwards "greenish", Proe. Boston, No. 544]

[Nat. Lawyer does not at all contradict

Boyle's figure 1 astata (Fig. 111)

Drawn May 26 1894 Het. obliqua Park

Calc. .24 .45 .62 .85 1.17 1.60 nat. .73
Found .4+ .6 .85 1.6
407 891 183

Indigo marocopa
holo vitta in white oak, Plattsburgh
Aug 30, 1893. Nat. ? Head slightly bilobed,
about as wide as high, full, well rounded
gown white, shiny, marked with dense
dark mottling, giving a black patch
over the vertex of each lobe & largely covering
the dorsal, leaving the ventral white
ad. 1.6 mm. Body flattened, projecting
5-8, anal feet on 8-10, 13. The rows of
warts on every joint, ① ad central, ②
superior and, ③ 5-5 on projects base
and ④ smaller on 3-11 S-V. Hair
fine, radiating, not abundant, but
most on a longitudinal from ③. Individ
white, a black dorsal and several
irregular & confused blackish line
curved along the sides giving a dark
gray appearance. On 2-4, 7 & 11-12
the dark color extends to the

* closed and is of a little higher and more pointed
than the other. (concentric, 4 on back & leaf)

forming diffuse clouded patches
through which the d. line is less
distinctly defined by white lines
described. Hair black & white
mixed = "gray" Th. fed hornish
vents corded white. Vents all pale
some & ¹ a little black tipped
rose red & green the same, not pale.
^{short. 84, 87}
Members more hornish, clouded, d. line
scarcely continuous. Vents pale except
07 which is black. A flattened
rectangle little thing with fine short
of more pale hair. When "mad" it flops
up at ant. end like a leaf eating back paper
staged. ⁵ Hd pale yellowish, mouth darker
body light green 0 or 7 black horn with
a small brown d. patch & faint brown
greenish white d. band. Vents pale hair
mostly pale, a few stiff dark ones. Leaf for
most soft & revol. ^{80 (7.4, 11.6)} not so stiff, revol. 8- d. band with
coating little bit of leaf or paper, built up of 2 walls but
close them over all around so the cover is elongated
at a base 7x2 cm. built as a truncated mth (conical)
at a base 7x2 cm. built as a truncated mth (conical)

3-16-94

408 = 239

Dugesia alba

Code on white oak Plattsburgh Aug 31
(= the one from Esopus Island, BB 239)
Shape of *N. fasciata* but icy blue-green.
Elliptical, tail granulated. 2-3 ridge
prominent, sides sloping, 2-3 angle
about 75°, dorsum narrow and ^{curved} apical,
evenly arching. Subtarsal green, ^{curved} watery
gauze-like whitish (not yellow) green
the color below the surface. A 2-3
white band along ridge edged above
with green-black. 2-3 dots. Blackish
dots below surface, ^{occurred} seen
only centrally. Hd blackish on apical
parts, with 2-3 reticules below body.

*Sex as *y-inversa** 2
Mrs. Weston says probably = *y-inversa*

ad. 1 mm
hypothetical

Image May 13 1894 Cat. No. 10861
nola

409

egg laid by ♀ ^{lutea} ~~olyp~~ ~~olyp~~, Plattsburgh
Aug. 28. Smooth, slight shining brown,
shagreened. Elliptical, not flattened
15 x 1.0 x .9 mm. (see 633)

~~for all the
monarchs~~

~~for all the~~

~~monarchs~~

~~for all the~~

~~it seems~~

~~it in all the~~

~~monarchs~~

~~for all the~~

~~monarchs~~

~~monarchs~~

~~monarchs~~

~~monarchs~~

~~monarchs~~

~~regular on willow at~~

~~Sept 4, 1893. Little more~~

~~but more~~

~~at 1st~~

~~more~~

~~at 1st~~

~~more~~

~~at 1st~~

~~more~~

=410? on *Populus tremuloides* Jackson Highlands
N. H., June 16 '95

Egg hemispherical, white, ^{thin} transparent at apex ($\frac{1}{2}$ in.) dense, pitted like a thimble. I'm ^{6 high} from Hd now from extra pale egg a smooth dark w. ann. Body shiny and greenish, a sd whitish line which becomes broken into oblique ⁶ ⁷ ⁸ ⁹ ¹⁰ ¹¹ ¹² ¹³ ¹⁴ ¹⁵ ¹⁶ ¹⁷ ¹⁸ ¹⁹ ²⁰ ²¹ ²² ²³ ²⁴ ²⁵ ²⁶ ²⁷ ²⁸ ²⁹ ³⁰ ³¹ ³² ³³ ³⁴ ³⁵ ³⁶ ³⁷ ³⁸ ³⁹ ⁴⁰ ⁴¹ ⁴² ⁴³ ⁴⁴ ⁴⁵ ⁴⁶ ⁴⁷ ⁴⁸ ⁴⁹ ⁵⁰ ⁵¹ ⁵² ⁵³ ⁵⁴ ⁵⁵ ⁵⁶ ⁵⁷ ⁵⁸ ⁵⁹ ⁶⁰ ⁶¹ ⁶² ⁶³ ⁶⁴ ⁶⁵ ⁶⁶ ⁶⁷ ⁶⁸ ⁶⁹ ⁷⁰ ⁷¹ ⁷² ⁷³ ⁷⁴ ⁷⁵ ⁷⁶ ⁷⁷ ⁷⁸ ⁷⁹ ⁸⁰ ⁸¹ ⁸² ⁸³ ⁸⁴ ⁸⁵ ⁸⁶ ⁸⁷ ⁸⁸ ⁸⁹ ⁹⁰ ⁹¹ ⁹² ⁹³ ⁹⁴ ⁹⁵ ⁹⁶ ⁹⁷ ⁹⁸ ⁹⁹ ¹⁰⁰ ¹⁰¹ ¹⁰² ¹⁰³ ¹⁰⁴ ¹⁰⁵ ¹⁰⁶ ¹⁰⁷ ¹⁰⁸ ¹⁰⁹ ¹¹⁰ ¹¹¹ ¹¹² ¹¹³ ¹¹⁴ ¹¹⁵ ¹¹⁶ ¹¹⁷ ¹¹⁸ ¹¹⁹ ¹²⁰ ¹²¹ ¹²² ¹²³ ¹²⁴ ¹²⁵ ¹²⁶ ¹²⁷ ¹²⁸ ¹²⁹ ¹³⁰ ¹³¹ ¹³² ¹³³ ¹³⁴ ¹³⁵ ¹³⁶ ¹³⁷ ¹³⁸ ¹³⁹ ¹⁴⁰ ¹⁴¹ ¹⁴² ¹⁴³ ¹⁴⁴ ¹⁴⁵ ¹⁴⁶ ¹⁴⁷ ¹⁴⁸ ¹⁴⁹ ¹⁵⁰ ¹⁵¹ ¹⁵² ¹⁵³ ¹⁵⁴ ¹⁵⁵ ¹⁵⁶ ¹⁵⁷ ¹⁵⁸ ¹⁵⁹ ¹⁶⁰ ¹⁶¹ ¹⁶² ¹⁶³ ¹⁶⁴ ¹⁶⁵ ¹⁶⁶ ¹⁶⁷ ¹⁶⁸ ¹⁶⁹ ¹⁷⁰ ¹⁷¹ ¹⁷² ¹⁷³ ¹⁷⁴ ¹⁷⁵ ¹⁷⁶ ¹⁷⁷ ¹⁷⁸ ¹⁷⁹ ¹⁸⁰ ¹⁸¹ ¹⁸² ¹⁸³ ¹⁸⁴ ¹⁸⁵ ¹⁸⁶ ¹⁸⁷ ¹⁸⁸ ¹⁸⁹ ¹⁹⁰ ¹⁹¹ ¹⁹² ¹⁹³ ¹⁹⁴ ¹⁹⁵ ¹⁹⁶ ¹⁹⁷ ¹⁹⁸ ¹⁹⁹ ²⁰⁰ ²⁰¹ ²⁰² ²⁰³ ²⁰⁴ ²⁰⁵ ²⁰⁶ ²⁰⁷ ²⁰⁸ ²⁰⁹ ²¹⁰ ²¹¹ ²¹² ²¹³ ²¹⁴ ²¹⁵ ²¹⁶ ²¹⁷ ²¹⁸ ²¹⁹ ²²⁰ ²²¹ ²²² ²²³ ²²⁴ ²²⁵ ²²⁶ ²²⁷ ²²⁸ ²²⁹ ²³⁰ ²³¹ ²³² ²³³ ²³⁴ ²³⁵ ²³⁶ ²³⁷ ²³⁸ ²³⁹ ²⁴⁰ ²⁴¹ ²⁴² ²⁴³ ²⁴⁴ ²⁴⁵ ²⁴⁶ ²⁴⁷ ²⁴⁸ ²⁴⁹ ²⁵⁰ ²⁵¹ ²⁵² ²⁵³ ²⁵⁴ ²⁵⁵ ²⁵⁶ ²⁵⁷ ²⁵⁸ ²⁵⁹ ²⁶⁰ ²⁶¹ ²⁶² ²⁶³ ²⁶⁴ ²⁶⁵ ²⁶⁶ ²⁶⁷ ²⁶⁸ ²⁶⁹ ²⁷⁰ ²⁷¹ ²⁷² ²⁷³ ²⁷⁴ ²⁷⁵ ²⁷⁶ ²⁷⁷ ²⁷⁸ ²⁷⁹ ²⁸⁰ ²⁸¹ ²⁸² ²⁸³ ²⁸⁴ ²⁸⁵ ²⁸⁶ ²⁸⁷ ²⁸⁸ ²⁸⁹ ²⁹⁰ ²⁹¹ ²⁹² ²⁹³ ²⁹⁴ ²⁹⁵ ²⁹⁶ ²⁹⁷ ²⁹⁸ ²⁹⁹ ³⁰⁰ ³⁰¹ ³⁰² ³⁰³ ³⁰⁴ ³⁰⁵ ³⁰⁶ ³⁰⁷ ³⁰⁸ ³⁰⁹ ³¹⁰ ³¹¹ ³¹² ³¹³ ³¹⁴ ³¹⁵ ³¹⁶ ³¹⁷ ³¹⁸ ³¹⁹ ³²⁰ ³²¹ ³²² ³²³ ³²⁴ ³²⁵ ³²⁶ ³²⁷ ³²⁸ ³²⁹ ³³⁰ ³³¹ ³³² ³³³ ³³⁴ ³³⁵ ³³⁶ ³³⁷ ³³⁸ ³³⁹ ³⁴⁰ ³⁴¹ ³⁴² ³⁴³ ³⁴⁴ ³⁴⁵ ³⁴⁶ ³⁴⁷ ³⁴⁸ ³⁴⁹ ³⁵⁰ ³⁵¹ ³⁵² ³⁵³ ³⁵⁴ ³⁵⁵ ³⁵⁶ ³⁵⁷ ³⁵⁸ ³⁵⁹ ³⁶⁰ ³⁶¹ ³⁶² ³⁶³ ³⁶⁴ ³⁶⁵ ³⁶⁶ ³⁶⁷ ³⁶⁸ ³⁶⁹ ³⁷⁰ ³⁷¹ ³⁷² ³⁷³ ³⁷⁴ ³⁷⁵ ³⁷⁶ ³⁷⁷ ³⁷⁸ ³⁷⁹ ³⁸⁰ ³⁸¹ ³⁸² ³⁸³ ³⁸⁴ ³⁸⁵ ³⁸⁶ ³⁸⁷ ³⁸⁸ ³⁸⁹ ³⁹⁰ ³⁹¹ ³⁹² ³⁹³ ³⁹⁴ ³⁹⁵ ³⁹⁶ ³⁹⁷ ³⁹⁸ ³⁹⁹ ⁴⁰⁰ ⁴⁰¹ ⁴⁰² ⁴⁰³ ⁴⁰⁴ ⁴⁰⁵ ⁴⁰⁶ ⁴⁰⁷ ⁴⁰⁸ ⁴⁰⁹ ⁴¹⁰ ⁴¹¹ ⁴¹² ⁴¹³ ⁴¹⁴ ⁴¹⁵ ⁴¹⁶ ⁴¹⁷ ⁴¹⁸ ⁴¹⁹ ⁴²⁰ ⁴²¹ ⁴²² ⁴²³ ⁴²⁴ ⁴²⁵ ⁴²⁶ ⁴²⁷ ⁴²⁸ ⁴²⁹ ⁴³⁰ ⁴³¹ ⁴³² ⁴³³ ⁴³⁴ ⁴³⁵ ⁴³⁶ ⁴³⁷ ⁴³⁸ ⁴³⁹ ⁴⁴⁰ ⁴⁴¹ ⁴⁴² ⁴⁴³ ⁴⁴⁴ ⁴⁴⁵ ⁴⁴⁶ ⁴⁴⁷ ⁴⁴⁸ ⁴⁴⁹ ⁴⁵⁰ ⁴⁵¹ ⁴⁵² ⁴⁵³ ⁴⁵⁴ ⁴⁵⁵ ⁴⁵⁶ ⁴⁵⁷ ⁴⁵⁸ ⁴⁵⁹ ⁴⁶⁰ ⁴⁶¹ ⁴⁶² ⁴⁶³ ⁴⁶⁴ ⁴⁶⁵ ⁴⁶⁶ ⁴⁶⁷ ⁴⁶⁸ ⁴⁶⁹ ⁴⁷⁰ ⁴⁷¹ ⁴⁷² ⁴⁷³ ⁴⁷⁴ ⁴⁷⁵ ⁴⁷⁶ ⁴⁷⁷ ⁴⁷⁸ ⁴⁷⁹ ⁴⁸⁰ ⁴⁸¹ ⁴⁸² ⁴⁸³ ⁴⁸⁴ ⁴⁸⁵ ⁴⁸⁶ ⁴⁸⁷ ⁴⁸⁸ ⁴⁸⁹ ⁴⁹⁰ ⁴⁹¹ ⁴⁹² ⁴⁹³ ⁴⁹⁴ ⁴⁹⁵ ⁴⁹⁶ ⁴⁹⁷ ⁴⁹⁸ ⁴⁹⁹ ⁵⁰⁰ ⁵⁰¹ ⁵⁰² ⁵⁰³ ⁵⁰⁴ ⁵⁰⁵ ⁵⁰⁶ ⁵⁰⁷ ⁵⁰⁸ ⁵⁰⁹ ⁵¹⁰ ⁵¹¹ ⁵¹² ⁵¹³ ⁵¹⁴ ⁵¹⁵ ⁵¹⁶ ⁵¹⁷ ⁵¹⁸ ⁵¹⁹ ⁵²⁰ ⁵²¹ ⁵²² ⁵²³ ⁵²⁴ ⁵²⁵ ⁵²⁶ ⁵²⁷ ⁵²⁸ ⁵²⁹ ⁵³⁰ ⁵³¹ ⁵³² ⁵³³ ⁵³⁴ ⁵³⁵ ⁵³⁶ ⁵³⁷ ⁵³⁸ ⁵³⁹ ⁵⁴⁰ ⁵⁴¹ ⁵⁴² ⁵⁴³ ⁵⁴⁴ ⁵⁴⁵ ⁵⁴⁶ ⁵⁴⁷ ⁵⁴⁸ ⁵⁴⁹ ⁵⁵⁰ ⁵⁵¹ ⁵⁵² ⁵⁵³ ⁵⁵⁴ ⁵⁵⁵ ⁵⁵⁶ ⁵⁵⁷ ⁵⁵⁸ ⁵⁵⁹ ⁵⁶⁰ ⁵⁶¹ ⁵⁶² ⁵⁶³ ⁵⁶⁴ ⁵⁶⁵ ⁵⁶⁶ ⁵⁶⁷ ⁵⁶⁸ ⁵⁶⁹ ⁵⁷⁰ ⁵⁷¹ ⁵⁷² ⁵⁷³ ⁵⁷⁴ ⁵⁷⁵ ⁵⁷⁶ ⁵⁷⁷ ⁵⁷⁸ ⁵⁷⁹ ⁵⁸⁰ ⁵⁸¹ ⁵⁸² ⁵⁸³ ⁵⁸⁴ ⁵⁸⁵ ⁵⁸⁶ ⁵⁸⁷ ⁵⁸⁸ ⁵⁸⁹ ⁵⁹⁰ ⁵⁹¹ ⁵⁹² ⁵⁹³ ⁵⁹⁴ ⁵⁹⁵ ⁵⁹⁶ ⁵⁹⁷ ⁵⁹⁸ ⁵⁹⁹ ⁶⁰⁰ ⁶⁰¹ ⁶⁰² ⁶⁰³ ⁶⁰⁴ ⁶⁰⁵ ⁶⁰⁶ ⁶⁰⁷ ⁶⁰⁸ ⁶⁰⁹ ⁶¹⁰ ⁶¹¹ ⁶¹² ⁶¹³ ⁶¹⁴ ⁶¹⁵ ⁶¹⁶ ⁶¹⁷ ⁶¹⁸ ⁶¹⁹ ⁶²⁰ ⁶²¹ ⁶²² ⁶²³ ⁶²⁴ ⁶²⁵ ⁶²⁶ ⁶²⁷ ⁶²⁸ ⁶²⁹ ⁶³⁰ ⁶³¹ ⁶³² ⁶³³ ⁶³⁴ ⁶³⁵ ⁶³⁶ ⁶³⁷ ⁶³⁸ ⁶³⁹ ⁶⁴⁰ ⁶⁴¹ ⁶⁴² ⁶⁴³ ⁶⁴⁴ ⁶⁴⁵ ⁶⁴⁶ ⁶⁴⁷ ⁶⁴⁸ ⁶⁴⁹ ⁶⁵⁰ ⁶⁵¹ ⁶⁵² ⁶⁵³ ⁶⁵⁴ ⁶⁵⁵ ⁶⁵⁶ ⁶⁵⁷ ⁶⁵⁸ ⁶⁵⁹ ⁶⁶⁰ ⁶⁶¹ ⁶⁶² ⁶⁶³ ⁶⁶⁴ ⁶⁶⁵ ⁶⁶⁶ ⁶⁶⁷ ⁶⁶⁸ ⁶⁶⁹ ⁶⁷⁰ ⁶⁷¹ ⁶⁷² ⁶⁷³ ⁶⁷⁴ ⁶⁷⁵ ⁶⁷⁶ ⁶⁷⁷ ⁶⁷⁸ ⁶⁷⁹ ⁶⁸⁰ ⁶⁸¹ ⁶⁸² ⁶⁸³ ⁶⁸⁴ ⁶⁸⁵ ⁶⁸⁶ ⁶⁸⁷ ⁶⁸⁸ ⁶⁸⁹ ⁶⁹⁰ ⁶⁹¹ ⁶⁹² ⁶⁹³ ⁶⁹⁴ ⁶⁹⁵ ⁶⁹⁶ ⁶⁹⁷ ⁶⁹⁸ ⁶⁹⁹ ⁷⁰⁰ ⁷⁰¹ ⁷⁰² ⁷⁰³ ⁷⁰⁴ ⁷⁰⁵ ⁷⁰⁶ ⁷⁰⁷ ⁷⁰⁸ ⁷⁰⁹ ⁷¹⁰ ⁷¹¹ ⁷¹² ⁷¹³ ⁷¹⁴ ⁷¹⁵ ⁷¹⁶ ⁷¹⁷ ⁷¹⁸ ⁷¹⁹ ⁷²⁰ ⁷²¹ ⁷²² ⁷²³ ⁷²⁴ ⁷²⁵ ⁷²⁶ ⁷²⁷ ⁷²⁸ ⁷²⁹ ⁷³⁰ ⁷³¹ ⁷³² ⁷³³ ⁷³⁴ ⁷³⁵ ⁷³⁶ ⁷³⁷ ⁷³⁸ ⁷³⁹ ⁷⁴⁰ ⁷⁴¹ ⁷⁴² ⁷⁴³ ⁷⁴⁴ ⁷⁴⁵ ⁷⁴⁶ ⁷⁴⁷ ⁷⁴⁸ ⁷⁴⁹ ⁷⁵⁰ ⁷⁵¹ ⁷⁵² ⁷⁵³ ⁷⁵⁴ ⁷⁵⁵ ⁷⁵⁶ ⁷⁵⁷ ⁷⁵⁸ ⁷⁵⁹ ⁷⁶⁰ ⁷⁶¹ ⁷⁶² ⁷⁶³ ⁷⁶⁴ ⁷⁶⁵ ⁷⁶⁶ ⁷⁶⁷ ⁷⁶⁸ ⁷⁶⁹ ⁷⁷⁰ ⁷⁷¹ ⁷⁷² ⁷⁷³ ⁷⁷⁴ ⁷⁷⁵ ⁷⁷⁶ ⁷⁷⁷ ⁷⁷⁸ ⁷⁷⁹ ⁷⁸⁰ ⁷⁸¹ ⁷⁸² ⁷⁸³ ⁷⁸⁴ ⁷⁸⁵ ⁷⁸⁶ ⁷⁸⁷ ⁷⁸⁸ ⁷⁸⁹ ⁷⁹⁰ ⁷⁹¹ ⁷⁹² ⁷⁹³ ⁷⁹⁴ ⁷⁹⁵ ⁷⁹⁶ ⁷⁹⁷ ⁷⁹⁸ ⁷⁹⁹ ⁸⁰⁰ ⁸⁰¹ ⁸⁰² ⁸⁰³ ⁸⁰⁴ ⁸⁰⁵ ⁸⁰⁶ ⁸⁰⁷ ⁸⁰⁸ ⁸⁰⁹ ⁸¹⁰ ⁸¹¹ ⁸¹² ⁸¹³ ⁸¹⁴ ⁸¹⁵ ⁸¹⁶ ⁸¹⁷ ⁸¹⁸ ⁸¹⁹ ⁸²⁰ ⁸²¹ ⁸²² ⁸²³ ⁸²⁴ ⁸²⁵ ⁸²⁶ ⁸²⁷ ⁸²⁸ ⁸²⁹ ⁸³⁰ ⁸³¹ ⁸³² ⁸³³ ⁸³⁴ ⁸³⁵ ⁸³⁶ ⁸³⁷ ⁸³⁸ ⁸³⁹ ⁸⁴⁰ ⁸⁴¹ ⁸⁴² ⁸⁴³ ⁸⁴⁴ ⁸⁴⁵ ⁸⁴⁶ ⁸⁴⁷ ⁸⁴⁸ ⁸⁴⁹ ⁸⁵⁰ ⁸⁵¹ ⁸⁵² ⁸⁵³ ⁸⁵⁴ ⁸⁵⁵ ⁸⁵⁶ ⁸⁵⁷ ⁸⁵⁸ ⁸⁵⁹ ⁸⁶⁰ ⁸⁶¹ ⁸⁶² ⁸⁶³ <sup

Fulton, Notes on gland below
head in ~~Worshamian~~

Naevius (sic. You) 1886 1589

P Lycomorpha

Type lost

P Sapientia

Type in the

P Edema p

Type lost

P Phragoria

Type lost.

II Cossus n
With Argy

409

2 egg laid by ♀ *Tolype velleda*, ^{lauris} Plattsburgh Aug. 28. Smooth, slightly shiny brown, subglobose. Elliptical, not flattened 1.5 x 1.0 x .9 mm.

(see 633)

410 = 116

Sept 11
116

~~Notodonta strigata~~ on willow at Plattsburgh, Sept 4, 1893. Little in mid October. Egg shell $\frac{1}{3}$ spherical, has flat smooth under layer white. Diam. mm are coarsely irregular punctules, close. At 12 elongate pyriform cells radially arranged microyle, followed by concentric rows, after which the irregular ~~stippled~~ 1.1? Hd narrowing towards vertex, with 1 set. found 1 side, others rather large, entire under, under depressed at vertex. body cylindrical, 12 elongated d. slippings off apex of tr. 13 which is small; anal peduncle, about 1 mm size as other abd. On 6 d. a fleshy bump, low, conical, minute. A very slight one also on 7. Color light white diffusely marked along the sides, with a darker shade a brown-black d. band, narrowing and disappearing on 8-10 but distinct again post. The feet & legs fair white stipulated line.

Calc.	.41	.67	1.08	1.74	2.8
Found			1.1	1.7	2.8

stage ~~1.7~~ ~~1.7~~ Hd rounded, narrowing to vertex
median stripe depressed, concolorous with
body with a purplish band from antennae
narrowing to vertex of each lobe; some
concolor mottling especially lat. post.
Anal feet elevated. Body bilab. white
the darker lateral streaks become
oblique ~~ssd~~, but are faint as is the glo-
com. ocelli stylus. 2 band continue,
but very narrow 8-10, velvet, brown-black
in the anterior glosby hump on 6, reddish
on hump on 12. Head higher than 2 vento
heavily shaded with purple brown
gut all dark. Tubercles small, concolor
with very fine short setae, Ovule ② post
sd, ③ lat, ④ ss post, ⑤-⑥ in line s-v.
Anal feet white above, spinules black
marginal. 2 setae(①) on hump on 12, but
humps on 6 & 7 arise between the
setae of ①. Ocelli black ^{a white line} on 10.

47 (67) 1.05 1.57 2.35 3.5- ~~3.5~~ ^{mt. 67}
Found 5 1.1 1.62 2.35 3.5-
Stage ~~1.7~~ ~~1.7~~ Hd same. Cylips proportionately
small, oblique, with purplish reticu-
lation, vertical bands mottled, faintly
induced with whitish post. Head
higher than 2, the segs rather small,
abt longer, 3 small: 12 well humped
retractile, bearing ①. Hump on 6 & 7
subequal, leaning backward, retractile
bearing ① at the lateral base. Anal
feet used in walking small. Whitish
bilab. ^{spotted with purple} greenish tan. Lateral and
on 4 & 10, dark shaded ventrally. A
mottled yellow shade on 11-12 sd on
side of hump on 12. 2 band dark
greenish gray, broad, faint 8-10, absent
on 3. Faint sd oblique seg. white
lines & a styl. white line, absent 11-13
but bent at right & on 10 & passing
down the foot. Spinules white, black
marginal.

underside cotton
eg in willow, Keene Valley N.Y. July 9 1898
white, not shiny, 1 mm. (see before)
top one pinching top sides of bottom and
insets no part way off top. See July 10
hd round, light brown, shiny, ly up
mouth black, w. 5+ red brown w/
other slender, pale greenish scales 15
with white in sides of transverse white
st. 12 enlarged, slight yellow in 6.
The first 1-4 plates 7-10 black, oval
feet dark standard post. Setae fine
short from distinct black tubercle
normal in 5-5 feet vi absent. Body
with brownish shaded 5-5.
July 12 Hd high rounded toward vertex
gentle before, mostly blackish with
pale as found in the 1st defined
vertical bands. Red dark purple
with a blackish d. band, and
a pale shade on the sides of the
brown, w. 2 and slight gold lateral
oblique line. Light induction of
paler lines in 6, tho. feet black
setae short, obscure, dark, w. 16/12
apparently a little less but over 1 mm.
July 20 Hd 17+ (well in stage) Sbd 1.62
molts 21 new hd 2.35-2.40 (26 Hd 3.5

411 [F.H.H. kept] = 1830
Acronycta obliqua? on alder, Plattsburgh.
H black, cypers white λ -marked. Vent
large with short pale bristly hair
elevated bases, close, almost forming
elevated bands ④ white, stg. post
⑥ elongate, velvety black, hairy, and
concentric areas around them bright
red. Forming transverse band. 6 & d
white (band) broken into spots & so
white flecks along the side, a
broad bright yellow s-s band, suff
excavate above for each white
spindle narrowly connecting over
want ⑤. Ventr & feet black
sides of head reddish. 5d now 1 spot
above the at extremes.
(*St 5 obliqua* see description)

Imago (F.H.H.) June 1898

Calc.	.28	.44	.71	1.12	1.79	2.84	4.5	wt. 63
Found		$4 \pm$	7	$1.2 \pm$	1.8	3.	$4.5 \pm$	

Acronycta on clv., Plattsburgh, Sept.

4.5 large, held out flat, on three deep black, shaped, apices of lobes red tipped, claspers with broad genital white V-mark & central line. Labrum & base of antennae white. W. 4+ mm
a \diamond -shaped dorsal indentation on
5, 8 & 12, bearing \oplus at the corners.
High olive gray, side intercels whitish
a d, & lat. olive brown oblique band
the lat. defined by blackish marks
stepmately. D small, \oplus large, step
first, others normal. D band divided
by a whitish line, the humps olive brown
outlined in black. Hair very white, very
scant, almost absent d, longer d-v.
but many short stiff, white setae
arise from minute tubercles on the
skin, surrounded by whitish spots.

Other Sept R 1894 Flattish, and thin streaked with
yellow hairs. Hair 10 on 3-5 and 12 hair
reddish tinted. Hairs ①② white or black
or hair brown tinted as far as 9.
Accompany on ~~top~~ plain willow, Sept 4.



N.Y. June 20-21 1941, also in
white birch June 25-

III Hd. 7 On July 17 differs from the octo-
in that there is a faint brown dorsal
shading on 2, 3 and 12. Sd line white
and i slightly whitish - mottled?

Adult July 19 Hd 1.2. Hd whitish green, bilored
apex pointed, a small patch of brown
mottling in front below apex of each lobe
red green, sd yellowish line faint, 5, 8, 12
shaded with dark brown d. Hair long white
there are a few short 2d hair, but on the dark
patch i-ii on 5, 8 & 12 they are more numerous
black with enlarged ends, on a few 8-12, all
white there. The long dorsal hair are black.
sd 1.2 July 24 filled with a big maggot 412

TAXES AND INSURANCE	
" COMMISSION, ALLOWANCES AND DIS- COUNTS	
" GAS AND WATER	
" REPAIRS TO PREMISES AND PLANT	
" ADVERTISING, STATIONERY, POSTAGE, Mercantile Agencies, Legal and Court Costs, and Miscellaneous Expenses,	
" AMOUNT WRITTEN off Furniture, Sam- ples, Fixtures and Cartage Plant.....	
" BAD AND DOUBTFUL ACCOUNTS —written off	

\$

BALANCE ASSETS.

FACTORY BUILDINGS AND LEASEHOLDS at Cincinnati, New York and Philadel- phia, and City Lots in Indiana.....	\$94,450	42
MACHINERY, TOOLS AND FIXTURES , as origi- nally valued by Appraisers in April, 1892, plus subsequent additions.....	771,102	10
SAFES AND VAULTS , sold or ready for sale, at estimated cost.....	419,713	54
SECOND-HAND SAFES , inventoried at a con- servative valuation.....	43,037	00
SAFES AND VAULTS in process, and Materials at cost.....	352,737	73
BILLS AND ACCOUNTS RECEIVABLE	190,673	48
CASH ON HAND AND AT BRANCHES	3,591	81

Stage II Hd 4+ what is not shiny, no wrinkles no
eye. Body pale green with indication of a
bluish 8'd line. Warts come with long sets
& crown of short hair, a few glandular tipped
pust. light, part dark, some of small ones black.
12 in II; in ref (acta) vi present, want much
in time. Leg plates a little yellowish with several
pale edges



of the 4 setae on c-th. of
the post. lower one has
secondary hair and is
elevated into a wort.
But there is a row of pits
25 along ant edge of c-th.
no secondary hair from

Hall-Marvin Company

STATEMENT, Year ending 30th

May 1, 1894, April 30, 1895.

By **SALES OF SAFES, VAULTS, ETC.**

\$521,747 73

“ **AMOUNT RECEIVED** for Repair
Repairs and Sundry.....

309,209 51

“ **INTEREST AND CASH DISCO**

352,158 32

April 30, 1895.

“ **STOCK OF SAFES** on hand
Inventory this date.....

36,829 27

“ **BALANCE** being **LOSS** for th

58,819 29

247 36

248 92

97,496 28

944 32

001 64

826 16

285 59

183,057 71

144 12

097 60

53,241 72

CR.

2,479 65

8,624 61

6,000 51

59,922 04

08,647 00

Book Descripta com Aug. 15

Little Purp. & I in white oak Platyrh. Gray with a white
patch d. in 3-4 and 9. Structure of Argyia.
Mand. grey to black. 3d wants 2 large red gray, near black
d. in 10-13, and white on 3-8 & 9. Very thick gray hair
from 5-8, longest on 5, short on 7, nose going dorsal tufts
of a few black hairs on 12th esp. but
gray rather abundant; no gland hairs - all moderately
variable. Ret. tufts white. vent pale (lost)

Accoupto on stem ~~Plattat~~ Aug. 13 Hd bilobed pale green
brandy colored w. a few of each lobs with large, pale yellow spot
covered of brown & ~~one~~ ^{one} dot on a pale whitish ground nearly
dark to ocelli; apices of lobes brown; a number of pale brown
ocelli black. Body pale, a raised brown area on 5, 8 & 12
surrounded by a yellow ring, that on 8 passing also on 9
Warts small, hair 2-4, short, black i-ii, large & brown
between IV & VI, whitish iv-vi in small first stage. In
2d hair but minuscule pile. Shining moss on the elevated
papillae. i-ii a hair or 2. Tubercles meeting edge of 2d
bluish warts yellowish = A. moniliformis (Horn) H. & S.
molt Aug. 16 Same pattern darker, bluish brown, i & ii surrounded
by black, yellow border narrow and dull. Hd 3 mm
dead with a maggot Aug. 24

Hiram Ricker & Sons
Proprietors of

POLAND



NEW YORK OFFICE,
164 NASSAU ST. TRIBUNE BUILDING.

Trade Mark Registered April 25th, 1876.

M. W. H. G. Dyer #

1 3/4 day ell 80

A. montana on ground under apple (no elms
in sight) Sept 6/98 $1\frac{1}{2}$ miles from Sun. Crosses W.
Hd 4.5± black, shiny, hairs at bases of and
white; few white hairs. Kid gray
yellow, tho. part black. 2^d hairs narrow
short, flattened dorsally. Very normal
sv. Wart normal rather small but
with several hairs, larger & with more
& longer hair S-V (revi) D. hair gray
white centrally, enlarged in each seg.
to include ii, very large 5, 8, 12
from lightest brown to palest
bordered with black. Dorsal region
irregular gray shading, a black mark
between ii, iv & spine. Hair 2-4, 13 & 5-7
long, all white

Call. .28 .44 .71 1.12 1.79 2.84 4.5 nt. 63
 Found .42 .7 1.2± 1.8 3. 4.5±
 412 [S. H. H. kept]

Acronycta on elm, Plattsburgh, Sept 1.
 Hd. large, held out flat, surface deep
 black, shagreen, species holes red
 tipped, Clype with broad greenish white
 1-mark in central line. Labrum &
 base of antennae white. W. 4± mm
 a \diamond -shaped dorsal arrangement on
 5, 8 & 12 bearing ① at the corners
 light olive gray, side tubercles whitish
 a d. & lat. olive brown shoulder band
 the lat. defined by blackish marks
 symmetrically. ① small, ④ large, stg
 first, other normal - d band divided
 by a whitish line, the humps olive brown
 outlined in black. Hair thin white very
 scant, almost absent d. larger d-v.
 but many short stiff white setae
 arise from minute tubercles on the
 skin, surrounded by white spots.
 = a. moneta

Other sp. R 1994 Plattsburgh. Red line absent or only
 on wing veins v. Hair ① on 3-5 and 12 more
 or reddish brown. Hair ② white or black
 or hair brown tinted as far as 9
 413 [S. H. H. kept]
Acronycta on poplar willow. Sept 4.
 univittata *Halsidota maculata* Head black
 with a few pale hair, ② few except, scarce
 ant. to ③, ④ stg. past minute, velvet
 black ① on 7-11, ② also partly bright
 white, spiracles whitish, a diffuse
 light red s. band along ⑤, obolete
 at extremes, 12 slightly enlarged.
 Hair thick even, half obscuring body
 light yellow, leaving dorsal area
 black (hairs) hair from ① on 5 parts
 a ① 12 largely black. A few long
 hair at each extremity

Imagined by S. H. H. May 2) 1994
Acronycta brumosa
 On willow and alder Keene Valley
 N.Y. June 20-21 1994, also approx.
 white birch June 25 -

414 [T.H.H. kept]

~~acronycta~~ on willow, allied to the big
brown alder one, Plattsburgh Sept 4. '92.

No black, lobes separated by a natural
notch. Body black; hair short, very
dense, obscuring the body except head,
eyes, trochanters, like bands of hair.

Light yellow, shading into fleshy
brown on the back, slightly keeled
along dorsal line. On 5, 7 & 12 a
high thick black dorsal fringe
of hair a few very long white
hair from the extremities.

Spiracles white. Peritreme double
from ① wants center small, ①
as large as the others, sty. pink. Hair
from both body & wants alike. A
yellow s-s band, excavated for spiracle,
exactly corresponds with lateral hair
= dactylinia

